Department of Energy
Market Research Highlights

- Modernization of financial management systems is a top priority for the Department of Energy (DOE). A procurement for the replacement of the Business Management Information System (BMIS) Core Financial System is slated for mid-2000. DOE will purchase COTS financial system software, implementation and integration services, and training services for two pilot sites. DOE will also procure the hardware and utility software to support the pilots. Activity will be performed under the direction of CFO systems managers. DOE could benefit from vendors with expertise in systems procurement, implementation, and rollout alternatives.

  (See the "Budge," "Performance Plan," "CIO Report," "BMIS Presentation," and "CFO Plan" tabs.)

- DOE will also modernize its Budget Formulation System, with a procurement scheduled for FY2001. This will be DOE's next step in the modernization of BMIS. Financial systems modernization at Energy is being completed in stages.

  (See the "BMIS Presentation" tab.)

- Full implementation of the department-wide PeopleSoft human resources management system is an ongoing DOE initiative. In FY2000 the Department will upgrade to PeopleSoft HRMS 8.0 to ready the system for integrated testing of HRMS and Payroll/Time and Labor. DOE is pursuing several major human resource re-engineering efforts which include training administration, position management/classification, and Web-based system access for all DOE employees to view personnel and payroll information. Human resources management and development are top priorities for DOE, and any systems modernization efforts will likely include integration with the department-wide Corporate Human Resources Information System (CHRIS).

  (See the "Budget Request" and "CIO Report" tabs.)

- Commercial financial and/or operations management software are in use at all DOE labs and contractor-operated sites. PeopleSoft, Oracle, SAP, GEAC, and Sunflower all have software packages installed at various DOE sites, and these

systems are continually being upgraded. DOE could benefit from vendors with expertise in Enterprise Applications Integration (EAI) systems upgrade, maintenance, and integration opportunities at field sites.
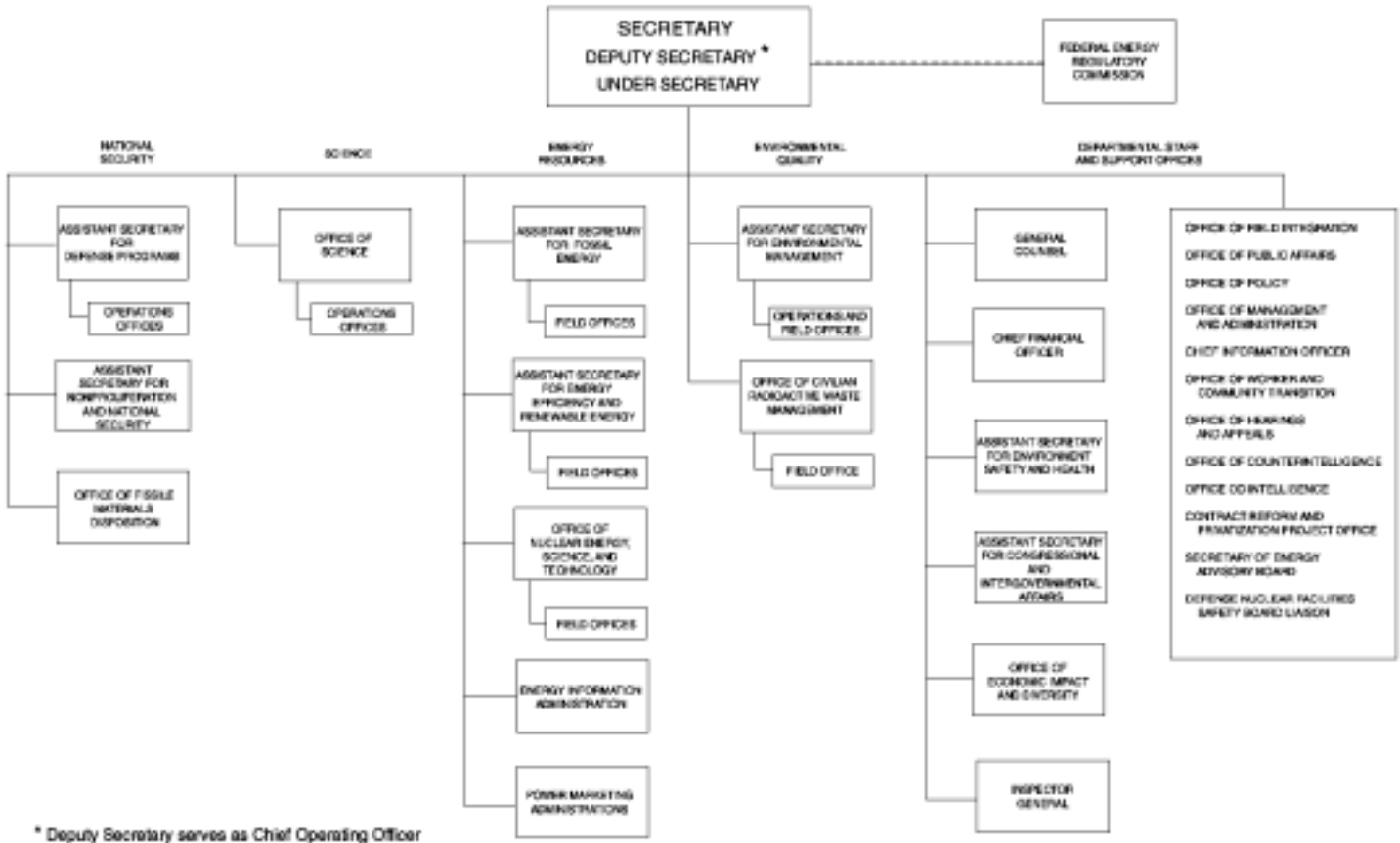
(See the "Site Software Use" tab.)

- DOE is in the process of developing an enterprise-wide business and technical architecture, and is placing increased emphasis on the use of EAI systems to manage their programs. Headquarters information and systems management will guide enterprise systems development.

  (See the "CIO Plan" tab.)

- DOE is interested in information technology solutions that detail the cost-benefit analysis associated with systems implementation and rollout. DOE is streamlining and consolidating many of its contracting activities and is moving toward a performance-based contracting environment. DOE could benefit from vendors with expertise in performance measures and business case modeling in modernization efforts.

  (See the "Performance Plan" and "Budget" tabs.)

Department of Energy
Agency Overview

* Deputy Secretary serves as Chief Operating Officer

The Department of Energy provides the technical information and the scientific and educational foundation for the technology, policy, and institutional leadership necessary to achieve efficiency in energy use, diversity in energy sources, a more productive and competitive economy, improved environmental quality, and a secure national defense.

Offices managing programs which require large budget outlays or provide technical direction and support are structured to reflect the principal programmatic

missions of the Department: energy programs, national security programs, environmental management programs, and science and technology programs.

The energy programs area includes the Assistant Secretary for Energy Efficiency and Renewable Energy, the Assistant Secretary for Fossil Energy, the Office of Nuclear Energy, Science, and Technology, the Power Marketing Administrations, and the Energy Information Administration.

The national security programs area includes the Assistant Secretary for Defense Programs, the Office of Nonproliferation and National Security, and the Office of Fissile Materials Disposition.

The environmental quality programs area includes the Assistant Secretary for Environmental Management and the Office of Civilian Radioactive Waste Management.

The science programs area includes the Office of Science and the Laboratory Operations Board and the Research and Development Council. The Office of Science was established under the Secretary of Energy Advisory Board to provide advice regarding the strategic direction for the Department's laboratories, and the Laboratory Operations Board and the Research and Development Council was established to integrate research and development across the Department.

The Department's organization also includes the Federal Energy Regulatory Commission, which is an independent regulatory organization within the Department.

Department Of Energy
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Department of Energy
Systems Overview

The Department of Energy relies on several different accounting and management systems, which together make up the Single Integrated Financial Management System (SIFMS). The systems that make up SIFMS are the Departmental Integrated Standardized Core Accounting System (DISCAS), the Management Analysis Reporting System (MARS), the Funds Distribution System (FDS), the Departmental Budget Formulation System (DBFS), the Payroll and Personnel System, and the Standard Power Marketing Administration Financial Management System. Each of these systems is described below.

- Departmental Integrated Standardized Core Accounting System (DISCAS)

  Recently the Department of Energy migrated the computer hardware/software operations of nineteen DISCAS sites to three. After this migration, a new software release was issued to establish a core baseline to strengthen standardization and improve operational efficiency. Two additional software releases were issued to accommodate all payment activities at the three sites and to automatically interface Travel Manager with DISCAS. The final phase of accounting consolidation will see the establishment of one consolidated database at each of the three sites. The improvements were to be implemented by the end of FY1999. During the next several years the focus will be on improvement of the integration with the Management Analysis Reporting System (MARS) and additional automation improvements.

- Management Analysis Reporting System (MARS)

  MARS is replacing the Financial Information System. In 1997, the Department implemented the Standard General Ledger transaction database using a comprehensive crosswalk. Other initiatives include the development of the core financial reports and an interface to the Executive Information System and Financial Data Warehouse. The final phase of MARS was scheduled for completion in 1998. This phase included the development and implementation of all external consolidated reporting requirements, expanded financial statement reporting, automated tie-point analysis/reconciliation and the formal retirement of the Financial Information System.

- Funds Distribution System (FDS)

FDS provides for the distribution of all obligational authority available to DOE for the fiscal year. The system facilitates single-source entry of data, standardizes automated interfaces with major headquarters programs and field components, and automates the distribution of congressionally appropriated funding authority levels of DOE programs for all departmental elements. In 1997 programming modifications were performed to accommodate OMB imposed restriction requirements. Currently the CFO is investigating the possibility of converting FDS to a Web browser environment. The CFO hopes that this will provide greater efficiency and flexibility by providing such features as on-line query capabilities, digital signature technology, and further reduction in paper intensive processes.

- Departmental Budget Formulation System (DBFS)

  DBFS consists of several small systems that provide budget control; statistical tables; and automated access to the creation, maintenance, processing, printing and transmission of project data sheets. The system enables program offices to input funding amounts by program activity and rank their budget at three levels. DBFS includes the Program Funding by Contractor and Location System, which employs a client/server system to interface with other DOE systems, and the Program Activity by Location Systems (PALS), which was built as a prototype in FY1998. These systems will eventually feed the Financial Data Warehouse.

- Payroll and Personnel System

  In 1994, DOE released a study that concluded the Department would be best served by outsourcing its human resource information processing services to another Federal agency. In January of 1997, DOE signed a memorandum of understanding (MOU) to be provided with human resource processing services. Many of the functions covered by the DOE personnel and payroll systems are being incorporated into the Corporate Human Resources Information System.

- Standard Power Marketing Administration Financial Management System

  This is a system that was adopted by the Western Area Power Administration in 1996. The system was scheduled for implementation in January of 1999. The Southwestern and Southeastern Area Power Administrations are currently

assessing this system and if proven cost effective, they will also implement the system.

- Corporate Executive Information System

  The CFO in cooperation with the CIO has made the decision to implement a corporate Executive Information System (EIS). EIS will provide executives and senior managers the ability to immediately access summary financial and programmatic information at their desktops. The EIS will support analyses for management decisions as well as provide information for external summary level reporting. An EIS pilot system was implemented in September 1997. Efforts are being made to further identify and refine corporate financial and programmatic information requirements.

- Financial Data Warehouse (FDW)

  FDW is a project initiated to create a single source of departmental financial data that could be easily accessed at the user's desktop. A pilot system was established in 1997 that included the creation of a prototype database to demonstrate analysis and data validation with financial information extracted from MARS. FDW was scheduled for deployment at the CFO office, Headquarters Program Offices, and field offices in the first quarter of 1998. Eventually the system will include additional sources of data to include budget formulation, budget execution, accounting and program management.

- Corporate Human Resource Information System (CHRIS)

  CHRIS is an enterprise-wide system used to automate and streamline human resource business functions. This system uses PeopleSoft software (HRMS/Benefits 7.0 and Federal Payroll and Time and Labor) and processes personnel actions. It provides real-time information, what/if analysis and online reporting. It employs modular components, a data warehouse and LAN/WAN/Telecom technologies.

- Document Online Coordination System (DOCS)

  This system manages document creation, revision, distribution, storage and retrieval functions. The system also provides for electronic routing of documents. DOCS has the ability to capture paper electronically, manage all document formats (text, images, graphics) and provide an audit trail. The

system employs modular components based on desktop platforms, Internet access and network computing.

- Business Management Information System (BMIS)/Financial Management Information system (FMIS)

  This integrated corporate system will integrate planning, budgeting and accounting processes. It will utilize COTS products, replace existing systems and use a financial data warehouse. The system will have the ability to capture budget and cost information, will perform cross cutting reporting, share data across systems/sites, and will provide performance measurement. The system will employ network computing, data dictionary, data warehouse, modular software, and LAN/WAN/Telecom technologies.

- Energy Information Administration (EIA) Information

  This system manages energy data related to production, consumption, costs, and forecasts. The system reports facts on energy consumption, fuel costs and imports. Web access to historical data is provided, along with monthly and annual forecasts.

- Environment, Safety & Health (ES&H) Reporting System

  This corporate system integrates safety reporting systems across the enterprise. The system reports accidents and injuries, monitors radiation exposure and tracks non-compliance. The system can be accessed from the Internet, and employs distributed application architectures along with LAN/WAN/Telecom technology.

- Procurement and Assistance Data System (PADS)

  PADS provides automated support for processing procurement requests and awards. The system operates under a SYSTEM 2000 Database/CLIST on a mainframe computer. PADS feeds other systems through data extracts transferred to other hosts electronically or manually. The system enables users to process procurement requests and awards, download extracts for manual manipulation, query the database on line or via programmed reports, and transmit data extracts to the server via File Transfer Protocol (FTP). The system also has the ability to interface with other DOE systems such as DISCAS.

- Travel Manager System

  This government wide system automates travel regulations, travel authorizations, and voucher preparation and processing. The system also provides monthly updates on travel rates. Travel Manager System uses a distributed application architecture.

Department of Energy
Systems and Budget Data

Department of Energy Information Systems Budget								
Information System	**FY1998**			**FY1999**			**FY2000**		
	M/D/E*	**SS***	**Sum***	**M/D/E***	**SS***	**Sum***	**M/D/E***	**SS***	**Sum***
Mission Area 1: Financial Management									
Business Management Information System - Financial Management (BMIS-FM)	1	0	1	3	0	3	16	0	16
Financial Information Management System	0	1	1	0	1	1	0	1	1
All Other Financial Management	8	9	17	3	13	16	3	13	16
Mission Area 2: Defense Programs									
All Other for Mission Area	64	135	199	72	161	233	77	153	230
Mission Area 3: Energy Efficiency & Renewable Energy									
All Other for Mission Area	0	1	1	0	1	1	0	1	1
Mission Area 4: Environmental, Safety & Health									
All Other for Mission Area	4	1	5	2	1	3	2	1	3
Mission Area 5: Environmental Restoration & Waste Management									
All Other for Mission Area	36	135	171	38	138	176	38	135	173
Mission Area 6: Energy Research									
ER-High Performance Computing Program	124	0	124	136	0	136	132	0	132
All Other for Mission Area	17	41	58	20	43	63	20	47	67
Mission Area 7: Fossil Energy									
All Other for Mission Area	12	2	14	1	2	3	1	2	3
Mission Area 8: Field Management									
All Other for Mission Area	2	3	5	2	3	5	2	3	5
Mission Area 9: Human Resources & Administration									
Corporate Human Resources Information System(CHRIS)	3	1	4	5	1	6	4	1	5
All Other for Mission Area	1	7	8	1	7	8	2	7	9
Mission Area 10: Nuclear Energy									
All Other for Mission Area	29	32	61	29	33	62	29	31	60
Mission Area 11: Nonproliferation & National Security									
All Other for Mission Area	2	14	16	6	17	23	6	18	24
Mission Area 12: Civilian Radioactive Waste Management									
DOELSN(Electronic Licensing)	0	0	0	1	0	1	1	0	1
All Other for Mission Area	3	5	8	5	8	13	4	7	11

| **Total** | **306** | **387** | **693** | **324** | **429** | **753** | **337** | **420** | **757** |

* M/D/E = Modernization/Development/Enhancement; SS = Steady State; Sum = M/D/E + SS.

Department of Energy Systems and Applications**		
Number of Operational Agency Financial Management Systems	Number of Operational Agency Financial Management Applications	Number of Applications in Development or Phased Implementation
1	7	1

Department of Energy Operational Agency Applications**												
Application Type												
Acquisition	Budget Formulation	Core Financial	Travel	Payroll Personnel Civilian	Payroll Personnel Other	Labor Distribution	Inventory Property	Inventory (Held for Sale)	Revenue	Loan	EIS	Other
0	1	5	0	1	0	0	0	0	0	0	0	0

** According to a 1998 CFO Council report. Operational agency applications omit systems in development.